

Appendix A

3. (Amended) The quadrature device (1) according to claim 1 [or 2], characterized in that the quadrature device (1) is a sigma-delta A/D converter having I and Q feedback paths and D/A converters (9I, 9Q) in the feedback paths for exchanging I and Q feedback signals.

4. (Amended) The quadrature device (1) according to [one of the claims 1-3] claim 1, characterized in that the switching means (3, 3', 6, 3'') are equipped for performing an I and Q data dependent exchange of the I and Q signals.

5. (Amended) The quadrature device (1) according to claim 4 [referring to claim 3], characterized in that the data dependent exchange takes place on an exclusive OR basis.

6. (Amended) A communication device, receiver, transmitter, transceiver, telephone, mixer, modulator or demodulator, comprising a quadrature device (1) according to [one of the claims 1-5] claim 1.

9. (Amended) The method according to [one of the claims 7-8] claim 8, characterized in that the quadrature device (1) is a sigma delta modulator producing I and Q bitstreams, and that I and Q feedback signals from said output bitstreams are exchanged.

10. (Amended) The method according to [one of the claims 7-9]
claim 9, characterized in that the exchanging has a rate which is a
multiple of the sampling frequency of said bitstreams.

11. (Amended) The method according to [one of the claims 7-10]
claim 10, characterized in that the exchanging of the I and Q
signals takes place in dependence on their I and Q data content.

12. (Amended) The method according to [one of the claims 7-11]
claim 11, characterized in that the exchanging of the I and Q paths
takes place on an exclusive OR basis, whereby alternately the I and
Q signals are fed back as they are or are fed back interchanged in
exclusive OR dependence on the I and Q data content.